

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Original) An anthropomorphic phantom for use with ultrasonic imaging procedure training, comprising;
 - a. phantom body made of an chemical composition capable of being heated and poured into a primary mold to form a simulated human anatomical structure, said chemical composition when cooled to room temperature being self-sealing when punctured;
 - b. a scattering agent suspended into said chemical composition to simulate the sonographic characteristics of a human anatomical structure; and,
 - c. at least one blood vessel simulating conduit formed inside said phantom body.
2. (Original) The phantom as recited in Claim 1, wherein said chemical composition is made of thermoplastic elastomers that are heated, mixed together and then poured into said primary mold.
3. (Currently Amended) The phantom as recited in Claim 2, wherein said thermoplastic elastomers include at least two elastomers from the following group: styrene, ethylene, butylenes, ~~styrene~~, and triblock.
4. (Currently Amended) The phantom as recited in Claim 3, wherein said two thermoplastic elastomers are mixed in a 60:30 ratio.

- 1 5. (Original) The phantom as recited in Claim 1, wherein said scattering agent is talcum powder.
- 3
- 4 6. (Original) The phantom as recited in Claim 1, wherein said scattering agent is glass beads.
- 6
- 7 7. (Original) The phantom as recited in Claim 2, wherein said scattering agent is talcum powder.
- 9
- 10 8. (Original) The phantom as recited in Claim 2, wherein said scattering agent is glass beads.
- 12
- 13 9. (Original) The phantom as recited in Claim 1, further including a pigment mixed with said
- 14 thermoplastic elastomers.
- 15
- 16 10. (Original) The phantom as recited in Claim 5 further including a pigment added to said chemical
- 17 composition.
- 18
- 19 11. (Original) The phantom as recited in Claim 6, further including a pigment added to said
- 20 chemical composition.
- 21
- 22 12. (Original) The phantom as recited in Claim 1, further including at least one cavity formed inside
- 23 said phantom that simulates an internal anatomical cavity or structure.

1 13. (Original) The phantom as recited in Claim 12, further including a substance placed inside said
2 cavity that simulates an anatomical substance in an anatomical cavity during an ultrasonic imaging
3 procedure.

4
5 14. (Original) The phantom as recited in Claim 1, wherein said blood simulating blood vessel is
6 filled with substance that simulates anatomical fluid during an ultrasonic imaging procedure. .

8
9 15. (Original) The phantom as recited in Claim 14 wherein said blood vessel extends to the outer
10 surface of said phantom and includes a plug that is inserted into the open end of said blood vessel to
11 prevent said fluid from leaking from said vessel.

12
13 16. (Currently Amended) A method of manufacturing an ultrasonic phantom, comprising the
14 following steps:

- 15 a. forming a primary mold designed to cast a phantom body of an anatomical object;
- 17 b selecting a suitable volume of a thermoplastic elastomer capable of being heated to
18 fill said primary mold and capable of self-sealing when cooled;
- 19 c. heating the thermoplastic elastomer until fluidic;
- 20 d. selecting one or more sound scattering compounds capable of causing a diffuse
21 scattering pattern in said phantom during an ultrasonic imaging procedure;
- 22 e. mixing said scattering compounds in the melted said thermoplastic elastomer;
- 23 f. pouring the melted said thermoplastic elastomer and said scattering agent into said

1 said primary mold;

2 g. allowing said mold to cool; and,

3 h. removing said phantom from said primary mold.

4
5 17. (Original) The method of manufacturing an ultrasonic phantom as recited in Claim 16, further
6 comprising the step of placing a secondary mold inside said primary mold to form an internal
7 structure inside said phantom.

8
9 18. (Original) The method of manufacturing an ultrasonic phantom as recited in Claim 17, further
10 comprising the step of removing said secondary mold from said phantom to form a hollow cavity or
11 conduit inside said phantom.

12
13 19. (Original) The method of manufacturing an ultrasonic phantom, as recited in Claim 17, further
14 including the step of filling said hollow cavity or conduit with substance that simulates natural
15 substance is said cavity or conduit during an ultrasonic imaging procedure.

16
17 20 (Currently Amended) A method of manufacturing an ultrasonic phantom, comprising
18 the following steps:

19 a. forming a primary mold designed to cast a phantom body of an anatomical object;

20
21 b. selecting at least one secondary mold capable of forming a conduit or cavity in said
22 phantom body;

23 c. placing said secondary mold inside said primary mold;

1 d. selecting a suitable volume of ~~an~~ ultrasonic simulating tissue material made of
2 thermoplastic material and is self-sealing when cooled;

3 e. pouring the ultrasonic simulating tissue material into said primary mold and over said
4 secondary mold;

5 f. allowing said mold to solidify; and,

6 g. removing said secondary mold from said phantom body thereby forming a hollow
7 void or cavity inside said phantom body.

8
9 21. (Original) The method as recited in Claim 20, further including the step of heating said
10 ultrasonic simulating tissue material so form a liquid that can be poured into said primary mold.

12
13 22. (Original) The method as recited in Claim 21, further including the step of adding a scattering
14 agent to said ultrasonic simulating tissue material to simulate natural living tissue during an
15 ultrasonic procedure.

16
17 23. (Original) The method as recited in Claim 20, further including the step of adding an ultrasonic
18 contrasting material to said hollow void or cavity formed inside said phantom body.